Leymarie, Pierre, 271
Lin, Grace J., 281
Lin, T., 407
Lindner, H.R., 73, 89
Lusby, William R., 567
Lynch, Almorris, 321

MacIndoe, J.H., 439
MacPherson, Janet S., 709
Maeda, Masako, 453
Malaval, F., 29
Mandava, N. Bhushan, 567
Mappus, E., 607
Marcotte, Patrick A., 693
Marut, Edward L., 321
Masseyeff, Rene, 195
Mather, J.P., 35
Mathew, J.K., 229
McDermott, Martin J., 307
McIlhinney, R.A.J., 719
McSherry, Charles K., 333
Mehta, Rajeshwari R., 679
Meigs, Robert A., 211
Meudt, Werner J., 567
Miyano, Masateru, 703
Morisaki, Masuo, 417
Morris, David J., 307
Mosbach, Erwin H., 333
Mrotek, J.J., 229
Murono, E.P., 407

Nagaoka, Masao, 557
Nakao, T., 111
Nakayama, Ryo, 55
Nankin, H.R., 407
Nice, E.C., 719
Nicol, Marc Louis, 1
Nordblom, G.D., 161
Numazawa, Mitsuteru, 149, 557

Ogura, Michio, 495
O'Hare, M.J., 719
Osawa, Yoshio, 149
Osterman, J., 407
Owoyale, J.A., 205

Park, R.J., 383
Paryzek, Zdzislav, 141
Perel, E., 397
Petrow, Vladimir, 121
Philibert, D., 651
Porcheron, Patrick, 633

Ratajczak, T., 537
Ratcliffe, Wendy A., 709
Rigaudiere, N. 185
Roberts, K.D., 523
Robinson, Cecil H., 693

Saez, J.M., 35
Samarajeewa, P., 667
Sandberg, Avery, 121
Sanfield, Jeffrey, 281
Sansing, T.B., 375
Sauer, Maurice J., 45
Saumande, J., 425
Shackleton, C.H.L., 485
Sheean, Leon A., 211
Sheppard, P.N., 537
Sholl, Samuel A., 221
Singhal, Anil K., 333
Sinohara, Hyogo, 263
Sinsheimer, J.E., 593
Sjöstrand, U., 347, 355
Sőti, M., 11
Spaulding, David W., 567
Stora, Claude, 195
Stradnieks, Sofia, 281
Subbiah, M.T.R., 477
Sudo, Katsuichiro, 55
Suzuki, Yasuyuki, 263
Szeleczky, Z., 11

Tamamura, F., 111
Teutsch, G., 651
Thompson, Malcolm J., 567
Tsai, Chon-Hwa, 581, 693
Tsuji, Akio, 453
Tsuma(-Date), Terumi, 495
Tsunoda, N., 111

Ursely, Jocelyne, 271

Vining, R.F., 297

Wang, Yueh-Sha, 121
Webb, R., 161
Weerasekera, D.A., 667
Williams, Robert F., 321
Woods, Gayle R., 439
Wydra, Roman, 141

Yoshida, Keiji, 55

Zimmer, L.A., 477

SUBJECT INDEX - VOLUME 38

17α-Acetoxy-6-dibromomethylenepregn-4-ene-3,20-dione, 5α-reductase inhibitor, 121
17α-Acetoxy-6-dichloromethylenepregn-4-ene-3,20-dione, as 5α-reductase inhibitor, 121
3β-Acetoxy-19-iodo-5-cholestene, in dog and rat, 205
20β-Acetoxy-6-methylenepregn-4-en-3-one, 5α-reductase inhibitor, 121
4-Acetoxyandrostene-3,17-dione, inactivation of aromatase activity by, 693
18, Acetyl-17,18-cyclo-4-androsten-3-one, preparation of, 703
ACTH, influence of, on adrenal monoamines, 1
Adrenal, a method for the isolation of lipid droplet fractions from, 229
Adrenal uptake, of 3β-acetoxy-19-iodo-5-cholestene-^{125}I, 205
Affinity labeling reagents, for estrogen receptors, 537
Affinity labels, of human placental aromatase, 149
Aging Leydig cells, receptor levels in, 407
Aldosterone metabolites, with cytochrome P-450, 307
17α-Alkynyl-11β,17-dihydroxy-androstane derivatives, a new class of potent glucocorticoids, 651
Alpha-fetoprotein, regulation of ovarian activity by, 195
7β- and 7α-Amino-17β-hydroxy-androst-4-en-3-one, synthesis and stereochemistry of, 607
Androgens, specific binding of, 439
Androst-4-ene-3,17-dione, radioimmunoassay of, 161
Anordrin, antiestrogenic and antifertility actions of, 679
Anti-androgen TSAA-291, 5α-reduction of, 16β-ethyl-17β-hydroxy-4-estren-3-one, by nuclear 5α-reductase in rat prostates, 55
Antiestrogen action, of anordrin, 679
Antifertility action, of anordrin, 679
Anti-inflammatory steroids, stabilization of rat liver lysosomes by, 365
Aromatase inhibition, 397
Aromatization, by bovine luteal cells, of testosterone, 271
Aromatization, NADPH requirement of, 211

Bile, cattle, products of catabolism of bile acids by a Pseudomonas sp., 383
Bile acid synthesis, enhancement of, in pigs, 477
Bile acids, biosynthesis of, from endogenous and exogenous cholest-5-en-3β-ol, in liver, 495
Bile acids, preparation of, 333
Biosynthesis, and inactivation of ecdysone during the pupal-adult development of the cabbage butterfly, 633
Bovine milk, progesterone novel enzymeimmunoassay of, in, 45
Brassinosteroids, synthesis and biological activity of, 567
Breast tissue, inhibitors of steroid metabolism, 397
16α-Bromoacetoxy androgens, synthesis of, 149
17β-Bromoacetylamino-4-androsten-3-one, synthesis of, 149

Cancer cells, androgen receptor complexes in, 439
Cardenolides, 7β-hydroxy-structure elucidation of, 11
Chemiluminescence assay, of dehydroepiandrosterone, 453
Cholest-5-en-3β-ol, as the precursor for bile acid formation, 495

5α-Cholestane-3α,7α,25-triol, synthesis of, 465
Cholesterol analog, in silkworm growth, 417
Cholesterol catabolism, in pigs, 477
Coral, *Anthelia Glauca*, isolation of marine sterols from, 347
Corticosterone, pulsatile secretion, 297
Cortisol, enzyme immunoassay of, 111
Cucurbitacins [1,2], synthons for the preparation of, 141
18,20-Cyclo-steroid, ring contraction of, 703
Cytochrome P-450, role in metabolism of aldosterone, 307

Dehydroepiandrosterone, enzyme assay of, 453
7-Dehydroxylation inhibitors, preparation of, 333
Diethylstilbestrol, isomerization of, to pseudo-diethylstilbestrol, 593
Diethylstilbestrol-dimethylsulfoxide adjunct, isolation and characterization of, 593
Digitoxin, microbial hydroxylation of, 11
Dihydrotestosterone, quantification of, in pig, 185
3α,7α-Dihydroxy-5α-25-homocholanic acid, methyl ester, 465
11β,17-Dihydroxy-17α-propynyl-1,4,6-androstatrien-3-one, a pure glucocorticoid devoid of any affinity for the aldosterone receptor, 651
(22E,24R)-24,26-Dimethyl-cholesta-5,22,25(27)-trien-3β-ol, isolation of, 355
Dinoflagellate sterols, isolation of, 375
Duck, transcortin levels in, 29

Ecdysone, biosynthesis and inactivation of, during the pupal-adult development of the cabbage butterfly, 633
Enzymeimmunoassay, of cortisol, 111
Enzymeimmunoassay, of dehydroepiandrosterone, 453
Enzymeimmunoassay, of progesterone, in milk, 45
Epididymis, hamster, steroid sulfotransferase in, 523
Episodic secretion, of corticosterone, 297
(22E)-Ergosta-5,22,25-trien-3β-ol, isolation of, 355
Estradiol, influence of, on adrenal monoamines, 1
17β-Estradiol, radioimmunoassay of, in unextracted plasma, 425
Estradiol receptor levels, in testes, 407
17β-Estradiol synthesis, in bovine luteal cells, 271
Estrogen, content of myometrial nuclei, 175
Estrogen, induction by, 321
Estrogen conjugates, analysis by gas chromatography, 485
Estrogen receptors, affinity labeling reagents for, 537
16β-Ethyl-17β-hydroxy-4-estren-3-one (TSAA-291), 5α-reduction of, by nuclear 5α-reductase in rat prostates, 55

Fecal bile acids, assay of, 281
Fetal tissue, in pig, quantification of steroids in, 185

Gas chromatography, direct analysis of estrogen conjugates, 485
Glenodinium hallii sterols, isolation of, 375
Gonadotropin regulation, of Leydig cell function, 35
Growth-promoting steroids, synthesis and biological activity of, 567

7β- and 7α-Hemisuccinamido-17β-hydroxy-androst-4-en-3-one, synthesis and stereochemistry of, 607
Hepatic steroid hydroxylation, in rat liver, 307
25-Homo-5α-bile acids, synthesis of, 465
Human cell-lines, secretion of progesterone in, 719
Human sex steroid binding protein (SBP), structural requirements for, 243
4-Hydroxy-4-androstene-3,17-dione, effect of, on breast tissue metabolism, 397
20β-Hydroxy-6-methylenepregn-4-en-3-one, 5α-reductase inhibitor, 121
18-Hydroxyacetyl-17,18-cyclo-4-androsten-3-one, preparation of, 703
4-Hydroxyandrostene-3,17-dione, inactivation of aromatase activity by, 693
7β-Hydroxydigoxin, structure elucidation of, 11
21-Hydroxylase activity, in fetal adrenal, 221
17α-Hydroxylase activity, in ovarian granulosa cells, 581
17-Hydroxyprogesterone, metabolism, in fetal adrenal, 221

^{125}Iodinated tracer assay, of progesterone, 709
Inactivation of aromatase activity, 693
Inactivation and biosynthesis, of ecdysone during the pupal-adult development of the cabbage butterfly, 633

Ketamine hydrochloride, induction of, 321

Leydig cell, receptor levels in, 407
Leydig cells, in study of gonadotropin regulation, 35
Lipid droplet purification, from decapsulated rat adrenals, 229
Lyase, C^{17-20} activity in fetal adrenal, 221
Lysosome stabilization, by new anti-inflammatory steroids *in vitro*, 365

Marine sterols, isolation of, 347, 355
Methyl 6-formyl-3-methoxypregna-3,5-dien-20α-oate, 5α-reductase inhibitor, 121
Methyl 3-methoxypregna-3,5-dien-20α-oate, 5α-reductase inhibitor, 121
Methyl 6-methylene-3-oxopregn-4-en-20α-oate, 5α-reductase inhibitor, 121
6-Methylene-3-oxopregn-4-en-3-ones, as 5α-reductase inhibitors, 121
6-Methylenepregn-4-ene-3,20-dione, 5α-reductase inhibitor, 121
Monoamines, metabolism of, in rat adrenal gland, 1
Monoclonal antibodies of pregnanediol-3α-glucuronide, for immunoassay, 89
Monoclonal antibodies, stereospecificity studies with, 667
Myometrial nuclei, nuclear fraction, estrogen content in, 175

NADPH, quantitative requirement for aromatization, 211
Neonatal life, cholesterol catabolism, 477

Ovarian activity, regulation of, 195
Ovary, granulosa cells, 17α-hydroxylase activity in, 581
2-Oxazolines, preparation of, 333
3-Oxopregn-4-ene-20α-carboxylic acid, 5α-reductase inhibitor, 121

Placental microsomes, aromatization by, 211
Plasma testosterone-binding protein, in rat, 263

Porcine cell culture, in gonadotropin regulation, 35
Pregnanediol-3α-glucuronide, immunoassay of, 89
4-Pregnene-3,20-dione, secretion and metabolism of, 719
Progesterone, effect upon RNA polymerase, 511
Progesterone, I^{125} radioimmunoassay of, 709
Progesterone, induction by, 321
Progesterone, influence of, on adrenal monoamines, 1
Progesterone, novel conjugation to enzyme, for enzymeimmunoassay, 45
Progesterone, solid phase chemiluminescence immunoassay of, 73
Prolactin, induction of, 321
10-Propargylestr-4-ene-3,17-dione, effect of, on breast tissue metabolism, 397
Prostatic Δ^4-3-ketosteroid 5α-reductase inhibitors, 121
Pseudo-diethylstilbestrol, stereochemistry and isomerization from *trans*-diethylstilbestrol, 593
Pseudomonas catabolism, of bile acids in cattle bile, 383
Pulsatile secretion, of corticosterone, 297

Quantification, of fecal bile acids, 281

Radioimmunoassay, bridging phenomena in, 161
Radioimmunoassay, of estradiol, 271, 425
Radioimmunoassay, of progesterone, 709
Rat, developing, testosterone assay in, 263
Receptors, androgen, 439
5α-Reduction, of an anti-androgen TSAA-291, 16β-ethyl-17β-hydroxy-4-estren-3-one, by nuclear 5α-reductase in rat prostates, 55
Resazurin, assay of, 281
RNA polymerase, effect of progesterone upon, 511

Serum free medium, in gonadotropin regulation, 35
Silkworm, effect of steroids on growth, 417
Sodium 3,16α-dihydroxy-1,3,5(10)-estratrien-17-on-3-yl sulfate, synthesis of, 557
Sodium 3,17β-dihydroxy-1,3,5(10)-estratrien-16-on-3-yl sulfate, synthesis of, 557
Sodium 1,3,5(10)-estratriene-3,16α,17β-triol-3-yl sulfate, synthesis of, 557
Solid phase, chemiluminescence immunoassay, for progesterone, 73
Sponge, *Pseudaxinella Lunacharta*, isolation of marine sterols, 347
Steroid glucuronide, antibodies raised against, 667
Steroid secretion, a method for the isolation of lipid droplet fractions from decapsulated rat adrenals, 229
Sterol side chain, structural requirements for silkworm growth, 417
Sterol sulfates, in hamster, 523
Sulfotransferase, in hamster, 523

Teratomas, secretion of progesterone by, 719
7β- and 7α-Terephtalamido-17β-hydroxy-androst-4-en-3-one, synthesis and stereochemistry of, 607
Testosterone, aromatization of, 271
Testosterone, estrogen binding globulin (TeBG), 243
Testosterone, influence of, on adrenal monoamines, 1

Testosterone, quantification of, in pig, 185
Tetracyclic triterpenes, synthesis of, 141
Topical anti-inflammatory activity of, 11β,17-dihydroxy-17α-propynyl-1,4,6-androstatrien-3-one, 651
Transcortin level, in ducks, 29
4,4,14α-Trimethyl-19(10→9β) ABEO steroids, synthesis of, 141
4α,23ξ,24R-Trimethylcholestanol, isolation of, 375

Uterus, rat, effect of progesterone upon RNA polymerase in, 511